Ila II

18 95 -- 1

Alaska Coal fields

Bogosloff Wolcano

Corral Hollow

SURVEY

Mit Ball for sure notework not 1895



Sunday June 2/95 U.S. S. Pinta, Sitka, Alaska. about 9 A. M. take the tounch for It John Baptist Bay about 15 miles north of silka opposite Salisbury Sound, Coal has been reported here at various times but only in float pieces. a careful examination of the material brought down by streams shows only granited and metamorphic rocks and occasional bando of graphitic states, The lattic have some times the look of anthracite and are problebly what has been mistaken for coal by inexperienced persons. Return about 5 th. M. Coal at n. side Yakutat Bay near The shore seam about five feet some taken to Sitka by De Groff o Emmons. Russells Camp No 2 is at the site of the mine.

Coal at Pt. Gardner, several thousand doctors spent in development by Capt Jas. Carroll and others but work ceased on account of fautting which cut off the vein. Sunday June 9/95 Kootznahoo lagron southeast arm Sepphagen mine shaft 8 It deep gull of water, Hoisting apparatus + small car. a few tons of coal taken out/openium kag mo. 115.) about 3 years previous to our visit now reduced by Alacking to small flakes. appears to have been a small pocket soon exhauster seum in grable sandstones and soft shales dipping about 30° nW. only a short distance from The waters edge.

Juday June 9/95-115a arm of Kootsnahoo lagoon Where signs of coal were discovered by prospectors on a reef covered at high mospy higher about 350 nW. The shalls very greable with broken gramments of leaves +stems but no frost plant remains a few specimens (marked 1154 were collected. The The Ckness of the coarse grained but rather Unniform soft sandstones appeared to be several hundred feet, with occasional concretionary nodules of hada office material. The Strata showed waves in several places with a general new dip. The layers showed wave action by crossbedding very dishnell The shales were variable in hard hess usually soft and in then layers, very mable,

with accasional liquities not ules but no well blefined coal seams, The surface of the land covered with regitation The only exposures between the trees & low water mark. at another point on a small islet beliveen hos army from Favorile Bay me Bright know pointed out a six or eight mon searn of lignite much decomposed at the surface. This was traceable from low water mark to the face of the bluff. The sandytones appeared much hohen up wavelike, and every where enth every where less there 100 feet. The arm (5 & SE) in whileh These exposures are shown is the 201 from the entrance rocky and with som tibes, only accessible at slack water Dip 30-450 nWly.

the property of the second second

117 mentes lun 118 Bright m + & A. 1182 leaves Monday June 10-195 at Ot Sullivan a shift 120 ft was made by electory to others with poor results, The outcrop is about 8 inches thick of much crushed shaly lignile bouth polished our faces, In the shaft according to mc Clarky Au are two seames separates by about 6-8 mohes of hard state Dep no 60° Sinke 60° nw. The eval later out of their shaft down not appear to have been atilized except in the develle attacent to the owne (Specin in no 16 The adjacent Shaly show numerous les impressing.

monday June 10/95 mitchells Bay, Kook nahoo lagoon alaska - opp. camp 2 C.S. party on bluff not gar from entrancé into McCluskys arm. a small seam not exceeding two makes of coal with twice as much blate & shall in hart sant there dipping of a steep rugle (Strike E+W. Dip 45°N.) a tunnel om en about 30 feet probably ten years up and abardoned There are one or two similar acans one of four maches of another a little thicker, reported upon The SE shore of the bay opened my prospect holesx Bright war more two xx mitchelle Bay

monday June 10/95 meade & mitchells seams on arm of mitchell Bay 1st tunnel, where coul was taken out for the Sagurace timbered but filled with water and crushed they land chite (Specinen of cool in bag 117) visible seam averaging about a foot, near high water mach much controled and 100 ft west turns vertical and bis Jucales, then news out Strike 25 RE Din SE flat variable a second short tunnel in our har coal a short distance gurter up The arm, Rock sandstones chiefly above without Jassib, below shales with leaves, like the others. Continuing up The win on put in by Brightman, De Broff and others for los ft or less

Shaly liquite not over 14 inches inclosed in shale ont side of which is a harder phudstone . (Spece med of coal in tag 118-) many leaves in the shale a few specimens (1189) collected Several thousand dollars spent on their mine quite worthless. on a small cove at the head of the left hand down is the lonly coul segue now worked on which alle me claskey has done a good deal of work and taken out nebely 100 ting of coal. Dip 4 25 5.8 strike 25 25 40 nE. The rocks here are a low Muft of course said stone andie aluce, dikking marly

and visible from L. W to growthat have high water mark about level with the our face of the beach is a seams of shale + cont /18 makes) and which has been buy out for a sistance along its face) of about 100 feet to a death of a couple of fact, In The beach and not mally cor ered for the sand are sever at seams of coul separate by variable, thick bees of thate & state sandstone! The upper / specimen of coul in big no. 114) is the West I dearest and not over a fact thick. Goal from This seam trued in the Patterson Star launch 18 coiled tubular boilers, burned well and developed about 3/4 the staining value of

Wellington /B.C.) coal usually used was decided by betty than comox conl Below this searn is a yard or two of shale and Then a parallel seam of brown lignite mixed with bright boat and thin leaves of shale, This contained many particles of forsel resin and impressions resembling wood file. Owing to the wash over it the full ex tent and uniformity of This seam could not he districtly defined but it appeared to include about three jest with the Whether they mass was a local thickening of seam elsewhere er part of a uniform had our only be dellermined

by more extensive exploration The rooks about their mine are less disturbed than at other focalities visited and the prospect

Woody Id Kadiak Id.

July 11/95-On The short of the island facing Chineter Bay There lace dumerous beds of black ish state, the schistosill mearly vertical and in large part colin and strike are multiparious even in the extent of a few rods. These states atternate with their sandy dayers and form very thin leaves en many places, but are gaulted and broken up in a remarkable manner with numerous dykes of grayest hard dionte interest ong them and often greatly dissures with small couchy which are mostly felled with questy t calcule. Forsily he were more in these slates but careful sourch revealed a few (no.90) The average strike it n +5 magnetic, the dips 80°-85° Lowely, The below

from successive ridges I between which are fresh water lakes - long to harious or savanus The Jassib (to July 16) were all Jonns in the westernmost Mayers. These are consent at less cousted than those above them and the latter become lighter colored and more greasy thickness visible above the sea is about 200 ft at The thickest section. The dirritic intrusions are usually more or less transverse to the state beto I could find no bowling two sometales eviatics of a sandstone like that of the leaf hets of the penentula were notices hear the high water mark on the reach (91) Late found me errates on the mission grounds

as we leave Chineak Bay and work new through the strait beween Robink & apognak t Spruce Ids, The base levelling of the lowlands is seen habe less'tless devoted and no base levelled beach is presible on the NW shows of Kakiak or aformals. Bight Wof Cape Donelas Cooks Inly 21, 1895. This bight has anchor afe in 2-5 yours, seexcept from n. 7 718. The cape is low with works about it and the E asis S. Merto of The only appear to be finel, The west strove is bold and should be kept about in entering. The East purposela is composed of andwite flours mostly hongental and more or less interstinting with ash her sontaining carbonacous matter and remains of plants.

The are smewhat faulted and The athlice are often stream ward and sometimes applain selfly layous, The plants are mostly receive, grantes to as of The definitional a march flow. To the south Three gluciers are visthe in the range this come down South of Cape Graffus assend links in a stream decolory in into the hight. The scatter would is the law good. The peninsula west of the light is composed of a very level liger of columnai autorete about 40 ft thick with a tales of horsen onaterial of the name, and indian tions of leaf her below. The top of this her has been merderalely glaciates for also the instern pinen Wular) and shows a feet exhibited the agency might have been an extension of the glacies where stream now discharges into the hight of The looks of a jost heal de

composes on the surface but The glicinteen was brother a endolling of their scoring, Leaving the Cape and making a course nW sil W for augus here Id, the back or morthern side of the Douglas massifis well seen, snowcovered had with three very large snowy glaciers discending to the vicinity of the sea. That to the east appears to be the largest and showed an even snowy surface without lateral morning. northwest of The group of mountains is a space of comparatively low build behind the shoal Kanteshake Bay. Au caribon are reported planteful. On the way to augustin Id, and 6 or 8 miles from It are The ded otter rocks (- 1 -) which are said to lie SE may, from The peak of Augustin, We saw

there in one with a high bluff on east side of inlet (protable Ot, Bede hearing nEhy & while The peak hore from us nW./2W. mag. Later They born n 50°E and the peak n 50° W. at low water There were two low flat weeks and a smaller pointed one visible two miles off. They are said to be awash at 1/2 July 22 md 1895 Augustin Id Volcano. ancher in 3/2 pres, saus with the S. Ot bearing SE, by S. the most Ot. nW. The peak nE. by E. p E. about a mile from the beach. The S. pt is savey and low but the boot landing is hest here The heach remaining of serry should north of it. The west point is composed of askes and volumete stones forming low bluff banks

and surning off in flats upon which the bowlders, ometimes very large, are irregularly scal tered. There was farmerly an excellent harbor ifor small craft here, and The inner. harber still exists, but the entrance is now day at low water. This change was brought about in the last empleon (about 15883) and that it was due to an elevahim of the bottom suit not be felling up by the fell of ejected material is evident that presence of a manufer of more or less stanted spruce trees near the shore which are ever deathy older than the emption and would have been killed by the rall of material safgivent to choke the harton The peaks has the regular vol Carrie James the after Ming

north, the south edge of the original crater being highest and apparently overlanging to the north, Steam is sues from fissured black rooks at the edge of the orale on intermittent puffs. On the south slope arched beds of ejected material crop out on the upper this? of the mountain: The south Alope from the crest is about 42°, the morthern slope about 35. The upper two thirty of the peak are largely snow covered. below much is she as hes med scalled lava blocks, then mire a less herbage with stanted spruce spainely scattered and low creeping alsers. The borders of the island to the ST West, one low humocky and with boys and small pools. The South shoe has bluffer of variable height, note very high. The live is andesitie!

about 5 P. M. Leave aucher age and start northward Ih Chisik Id anchorage July 23 rd, 1895 altrest fix of M and anchor under the island Shore. Bark Highland Light at anchor waiting for palmen from Kassiloff cannery To aboard and comsult Capto Hughes about the locality. "He is anchored in 18 forms, Socrest Spring tide in Johne was 36th. about 24 ft at ordinary times. To be Soint at nW head of horth about 57 of high Redill part 4ft bursen yellowish souther conce quartz frains about 15/4; then dark group to pale livestone in ancoessive their bed & lowest is a fight gray torrew shale. The homes the is rather plentifully Jupaline with basile (2.94)

of Crotecting age, mountained is the most common, Baculity, ancella, ammonites, Frigoria Rection, Leopistha? and others occur also remains is a crab, In some of the layers here the beach were escured whitish pebbles containing The same forsily so the matrix. These strata are moderatoly in Clines / Dip Strike and the beach is largely comprosed of the Huttish mud consped sees-Jaces of some of them which from out at his water a long distance. The nE hear of the en trance shows bluffs of drinestone sanistone + conflorerate con laining volled publics, both pebbles & matrix containing The Dame Joseils. There black new much higher than those on The maidline side and above the his and of through the lives summit of enringly woold

bedy conformable in every respuch and apparently hornogens ous with the various had actually reached, This end rises to 1500 feet or possibly 2000 the island gradually declines to the EW end with the dip of The gently curved strata. Inst at the extreme and is the Island the beds are for a short distance more steeply inclined. The weathering is more lated forms and, near the beach, undercut by the sea into caves and natural arches. The Huffs on the mainland side appealed similar our also rige very high and continue high past the SE intrance. Off the SE head There were no visible rocks or breakers and we were informed there is no bar but acleur channel in but on entering and leaving a well

marked tide sip was encountered both times, which might lead to The supposition that abstructions I exist. On the island side the water is told to; on the main, shallow near the head of the harbor for a long distance from the heach, their osemed to be no hidden dancers and the Lolding ground is good. The wild is often stronger inside the harbor than out in the inlet at the same time ming to the high land and funnel shepis ralleys. The harbor opens to the S.E. but the intrunce is so not now and the channel so doing that the winds probably hind How home with severily our anchor. There is protable a namous channel out at the now end of the husbor but the ground is too good to render any attement to need absende

antecedent to a survey. Deft the harbor about 3 P. ill. and started a little before the flow tide for west and north Foreland, P. M. Joggy with a much breeze and tendency to min. Fouch the shoul east of Kalgin Id while at supper, but with no bad mesults, July 24/95. anchor off west Freland about 4 A. Il to wait for the flows tide. a small will ap of Kootena Interns here some of them come off to the ship Bluffs about 50 ft high of gravel + sand, worked above, with some high incountains in the interior, Leave at the sluck about 10 A. Il for north foreland, There is a wide way between the two with shoot water and foul from in much of it. The land behind it is partly very done, all wrotes and a river

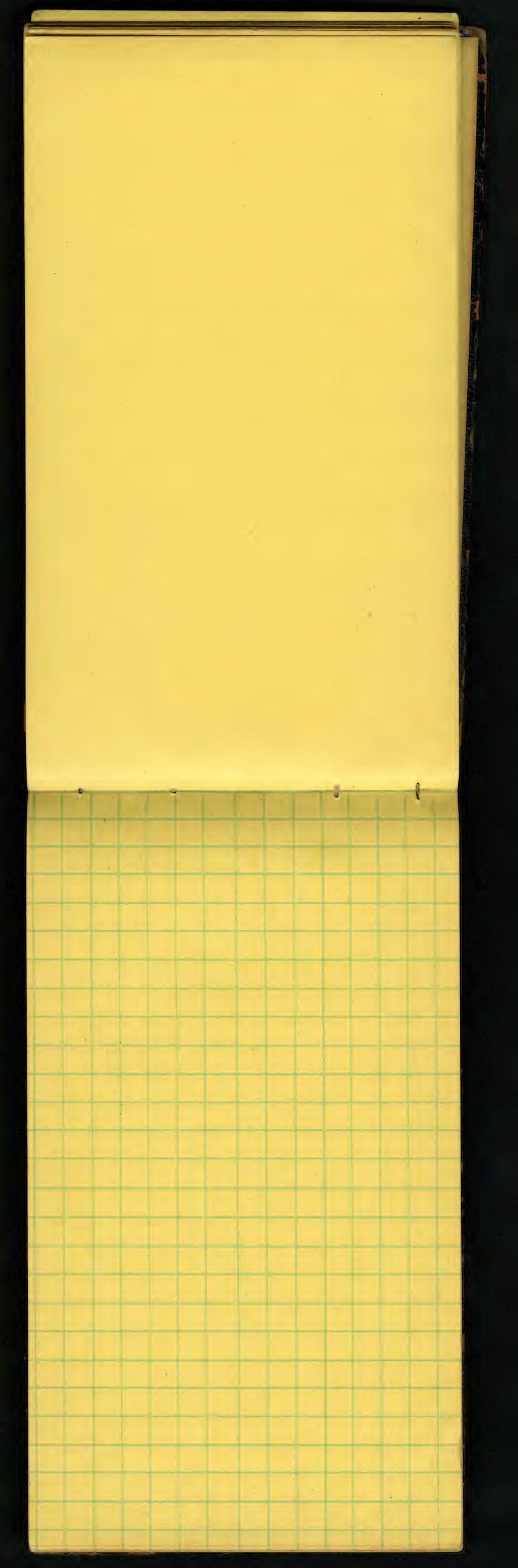
comes in with very muddy water, near the north Friedrich is a series of whitish gravel Huffs commence height with de broad beach and shallow, water for a mile off it with operacly scattered boulders byof on it some of them very large are Aquarish, mostly of or whitesh erlor, There are Indian houses in the formaipal for in this series of bluffs, The largest settlement, Fyrnek, is near the point of the Reveland where a small gravel flat water of the beach for half a miles is rather shoul but not foul. The spot inclosed by a dolled line South of north Fordans in chart with notice to mariness no. 4. 1895 at low water shows large bare soutbanks 6-10 land believen it ness of Po

session is a flat or shoul not shown in the charts and of considerable extent forming a serious danger, Fire It is nearer Ot Campbell and more southerly their on the einst and there is no channel south of it between it and in Farnagain Bay is more elogated than shown in the chart. There is an islet near the point east of Pt Prosession north of which anchorage may be had Enot of the Bay is almost dry at low water, around the normand to the north and about two miles distant is Salt's Jishery & trating post. auchored here about 4 P.M. audlanted The water has 3/2 four half a mile of the feed at 3/2 The formation is gravel t

a small sivel comes in, The formed is low here for a short disturble with lowblocks on either side. about n. mag. nelig is seen Aushitna Int a high brok mear the shitting Fire. The land on both sides from here is high & mountain ous anchor here for the next served take July 25/95-Deave about 2 A. M. with mines boat in tow. Thick & foffy, arive off Fire Id about 4 of all red Stand over to Pt Caup Jossession then along the shore at 2 miles distance to a small rocky point with a lump at the end, wooded and with a small flat rick of ets end. Uncher herlin 7 fors less one foot of high writer about 8 A. M. The point turns the strength of the cold a little outside

of the anchoring place whence by the against compass Pt. Camp bell bears west the edge of Pt Possession &W. In M. the ON edge of Fire IdrW by Winnes the small brocky print East a cable and a half my compands St. Presiden is long, low, worded with small bluffs at the shore Pt Comphell is istimilat. at the bottom of the bight east of Pt. Possession (which is shoot the land rises to 2000 ft mountains land also the opposite shore) buth are rocky and some down to the natu in rocky bluffs with no leaches ar highwatte. Off the high land on the south shore is a small directable four estable around which the resets flats dry at down water. It is called Hay stock My the numers. At the uncharage The following readours were taken of The ebb by protect log from the wester

100 hales 9,15 A. Il. log put over 103/4 " 70,15" " reads 136/2 1 12,15 110 1/2/4. 1,15 P.M 2,15 114 114/6 2.50 ... 3,30 8 and water about 7.30 A.M. Dr B. V. C. leave in small boat for the places mines on Reservedien & Bare Crock at 8.30 N.M. 41 ft water = tide mt. Suchitma hears nw. 1/2 W mag. Flood tide surs seven knots. mo at first noes 6 ft in 16 nimules.



July 271895? M. Rac. Mining & Frankportation Co. Jos. Rosenthal 19 Milgonery 17, S.t. agent in son or rencio co. Explorations begun in 1894 occ. Jupy M. H. Curtis Creek Rachekmak B. if of the same lide, syt 4 m class wall remarker afternale somme of good I day or "home" total oft. 3 turnely letal langth when body to Booking sent to S. J. 1895 and enother into 18 3 sent later in the scasmi. 23 3 Specimen (218) month veen in place buth hag weighs 13 of accisons is Spermen (219) main vein durip 133/4 B- (25 7/2 W) Secretary (220) mun neur influe with long 13/4 03. (24 1403) Strate of Dandstone, whitish clay containing large water woon bowlders, shales and lignite, the upper part covered by some 5-10ft of the dish gravel bluffs 600-800ft land ning behind 1000 ft.

Mr. Curtis is employing only a few men and the work he is doing is of the nature of exploration, The development of the property will depend on the results of the experiments with the coal The alaska Coal Co. which owns all the other claims within the spit on the bay, They have put in two tunnels which are reported caved in and the statem is not now occupied. a Mr. Cooper living at newilchik is The agent but only occasion the central facilities Co. sent ant Expedition under Lieut Schwerin U.S. A. to explored test the coal for locomoteve purposes (in 1891?) but ded not find it advisable for such use. Their eval was taken form me neil earion. next begins cottonwood next whose Earth.

The coal does not want to be two frequently stirred in firing, has little smoke and light Pull so ashow a little weeth of me neil carm and examine Secure of coal there which has been prospected with two short tunnels by Mr. Center. One server about 45 It above the beach is 4 ft 7 inches thick clem coul (222) with about six inches iron strined sourstine above and a thick gray clay below. above this are three seams separated by thick heds of clay or sandatone me of which, below, is mearly foul feet, the other thinner, the coul fairly compact with a dull Fradhure, occasional then lenses of sand or shall and a tendered, to break up cubically

Run over to glacier spit and for ashore in the boat with elle Centre aprile the Rodait goes after soal. To up to the Fredering & glacier which has receded since 1880 about 250 St, leaving a moranic of gravel and mul about 15-20 H. high, The ground me have in froht neuron torn up by towns. Come off about 2 Peple all's go aboard the moreon of \$.30. Have some support here but the Kerat which has been conling and filling writer does not come up till 10 Pill. Justay July 3 morning westerly wind fair. Fow the marion to a new ancharage then proceed to the coal ing place which is on the beach a little south of a smallriver which emplies into Coul Bay north of the spil. This is card to be the same ledge upon

which The alaska Coal Cos. entry was founded, and a tunnel (now laved in) sure by Mr. Brustey, There are several deams close to me austing of which The lower is the Wicker and bitter cont gur about 18 in thick. This is nearly The lowest season in the! 2000 ft somes visible above tide marks and is more compast, glossy in graciele and disposed to cultical fracture than the hels more booth on the same side of The boy and higher my the series, (specimen by no. 213) Buya leary small from the male of the marcon for at 1. MENTER AND MARKET AND THE STATE OF about 4 Post Take the skells back to the marion & tow outher Lighter. at 6 P. M. Sail for Saldovia Hartor, arriving at 11 Lille

Wednesday July 31 75 morning cold, Juffy, later clears, To ash a c and inter view Block (a, c, Co) and bruth (mit, C.Co), take on some water. Examine The rocks which are schistose and much contartes, on some of the grass between the botherding points now and SE of the parton ne patches of what assear toke tetting bess which be nearly horisontally abouting unch formably upon the Weristi One such patch SE from The entrance to the Harton shows a dark streak like coal. above the harbor a cral season is oregorited about five raches thick and a piece Up coal supported to be from this scam picked upon the buch is compact glissy breaker concertibilly , /ho! The bluff at SE hear of the

harbor is composed of two anact roaky bluff libety united by a low spit not centurously high as on the chast, The entrance has rocky bottom clear across with kelp in 5% fathours most of it is clear but There is a gound do bowley off the new small whitesh bluff pt, visible at low water. There are also works above I below water around the S.E. head, Incide there are y + 1 fours, water sandy willow off the willage in midharbor, Protection in the outer harbor brom all ant DIN winds are at the head of the live From all Sail about proper for recei

Thursday alegat 1895 Reach amountil Harker behind Fakhli Id about 5,30 A. M. Find the cove well shellers grow all winds, unchorage in 10 trus, saud. The rocks are chiefly course sand stones (Dip Strike) resting for formetly ate and containing suresite petbles. Thinkness about 250 ft or onfre. Strateta of streambedded whark gravel in theres me per throke or more week three seams about 18th ches thick of anyone coal of which about love inches are pure conted or already toxicies, doubly

dyke weathering nie risk to the cash while where girdally once averes thy a more recent tasalt which forms the made of the adjacent wills know carles sed into the saufstores in some bluces enclosing Mackenes many A some stone. The pantstones of the eartonized silt of lighter and du pressions of rech and stems much like there Leave The cover for Cold Bay about 11130 and run before an in b P. M. when we site The bay which has real extending nearly halfel ROSSISS NE ERHORE the morning or head thered. anchorma erve used

E Part of the state of the stat SW Head Cape Jaklik up in the ne part of the try about y P. M. I do books which are neces Assideade They comprise chiefly calcareous facilitations or sandy hunestones containing mimorous isolated concretion any most were our some pebbles, (over) Fossel wood SN hear of harter (Specimen no, 150) Invertebrate Asseils from first bench of mountain west of stream near anchorage ne side Cold Bay Ibas 20 149 + 148 Puriogh Investebrate fassile from some middle of selves at high water mark West of Stream to Fossel negitation n & Near of bay (148 /ag) Persington at I (mg 14%)

Vegelable impressions from states below conglomerate below muite nW plates harbor Cold Bay (bag 144) Sand Stock From above crupton busalt Jakhli Id Harbor (146) In this truestone we found a small seam of continuous shall with occasional their laminate of clear coal, the abole only a few inches thick, above the limestones was a moderate thickness of coumbling shale without fossels much much consted. In shally streaks of The limestones were impression, d) restlike plants, like there Lecant Cape Douglas, no of these low blaffs, which dise behind to lating guarish hill , the beds descend gradually boward a small stream off whech we are chard. Here a considerable

bed of confinerate of small pepples was superplaced on the limestones, any 2/95. West of the observe the Limestones and shales are again seen forming as low arch, westward from which they are surmounted my a regular veries of beds which have a purplish a distance and being of varying hard ness risk in a series of benches to a summit about 2000 thigh The hardre heds are limestine without Jossels, The softer mes a lealencous skill which countles into small augular fragments making long uniform takes slopes The burnestones contain many mostly leutroular or approvided whitish on cretions which affect per

upper heds mer of to Altr 40° Enfor Dip 30 min

ticular horisms more than others, There are also their variable bets, of conflower ate about the middle of the series new grow the anchorage was a bedd constructe of small rounded pellbles in a linestone matrix which also contained Amments of organic rempens, among which were ammonites Belemmites. Ostrea Janother birdly or two at the outers po of the first high beach of the same mountain things diffing 30 MIV. Puring for yould doninitialis, a brachiosis is like Rhymchenella, Beleinniter and a bivalve or two. The dis of the strata became micre Steep near the sociley of the street of the street of the law street.

Touris prices of facilians obscure steins or reetlike empressions of plants. Later in the privately we crossed to the light at the nE part of the burlor at the head of which is a flat with a large lagour ldry at low into which a scream runs, ascented here a gully of error to The rocks filling bassen shales and linestones like those of the eastern side of the boy, well up I found a calcarrous shale with a few plant impressions who we which was a heavy bed of conglomerate above which weds a hard parhapes andesitic volcanic rock which from Aranmonto and friable medicine up. The

beds of this rock seemed to he conformably on the other rocks, The southern and of the point was relatively low and the beds very mas sive and honizontal, a fault concerted by a more at the function protably separalles these beds from those to the month of them which als more steeply to the Withward, The file of the cliff much erobed into crévices pare montes places to thousand of dealines, mostly musiced Outle. On the listestones Frear the wort fostil wood and numerous heeds were found, the latter offers our Conisco. west aboard the sterment crossed the bay to pick up. Purington t done and then went to the SW, head where

we searched in vain for The assumented menteries by Fisher, The rocks were the same as there des cribed for the ne part of the buy aus the only forbile found were silicified wood Paris obscure plant romaly + forsel needs, the hed an trining the aumonity may exist here about but at all events is not en spicuous, Ramed most of the P. M. with fresh wind to gog from the distouring, look fastell + relies in to anchorage _ aug. 3. 1895_ Leave about 4 A. M. Gor Kialagret Bay, Westel fair forsh breezes, arrive about 110.30. a hidarka boards us topilots us before the ichning east of the much alicense in John the portrage to Ugushik

any 3.1895, Kialugvit Bay tocality mean Ugashik port-type in mys 212, 215 216,217,0221,223_ The bank is less Than 100 ft high and mostly grassy some amall exposures of can stone and course shale afford plenty of ammonites Mys other brokersons freely The charts of this received are poor, the bay leading to The Betcheroff vellage is clar except near the presents of entrance where the youl growns extends well off The upper part of the tray is shoul you a complet miles of the heach to if no consideran mountain recognizable as the overa The chart mar the vellage the mountains assistants

be from to of rocks similar to those new Cold Bay The entrance to the corner bay is conther along to the auter isless with 2003 Ins war a voir within is plenty of water of one houses There is a second entrance west of the first hunch of islets with does water in it, There are various visible nocky in their best no hidden danse. Int. Olai is at the western It ste buy not, as on the chart, notthed it. There is a farge glassice on its east Hank and on the deauer Jake Two other devenue from the dring market. Leave the bay about 1,30 for Chiquik bay where

During Vary 4/95__ Day fair with westerly wind, arrive in Chignite Bayabout 6 D. M. and Enter the layour and run up to the cannery which is on the SW chone 2 forms least water on the bar and 22 Hat high water within the charmal is mos crately wide with 3-5 fms water randy bottom up to the country, beyond which it shouls. Capt malle + Supr Smith I the corneres come about, We go ashore inspect the canneries, dire with all Wms. Smith, and about 1.30 go on a small stern aheelu up to the hear of the bay and about a mile up the give to the coal mine, The none is not very deap our runs between persenticular for bluffs of Festioner work to

a lake 2-3 miles further up which is 6-familes long then connects by 5-6 miles forces with another lake shid to be as long as the first-The coal was discovered by one Newbuson about 1865 but he did not mainlen has sight and a Mr. Robert See who did some exploration during your years and took out several hundred town of coal. We sold his sights to The Alaska Proken associate 198 to develop the mine That onide Jaskion using the coal Har the caundries, our ing the summer Three men are employed who take out about two and a half tons per day at a cast of #3,000
per ton, atout 350 tons or
year or 1000 tons in all have
so far seeen some a here

Darring The winter two men are employed und paid at The rate of 25 of an home working by much or as little as they please. There is no maghinery and the work is done by blasting the rock of coal month in wheel Gerrows, There we how turnels about 40 ft spart, 6/4 high and 240 feet long. He only tumbers are uprights which have been post in to support the root which is good but slows bigns of weakness in shots. The upper tunnel has been wished to a width of 40 H in some Alones with a senger cons cut to the lower turnel The strata Dep 92 250 & and The strike W. 15-0-20° W. The hedding is very regular in the whole with a few mall

slips. The coal consists of me seam about 16 moles in average Mickey which are more is a sweek of sandstone more or less regular whoether 11 mely store and about six inclus of coal about six feet whore is another sweall seam 6-8 money in thick ness, very pohesive to the most which is of a ferm Duhlstonk -There are How forsels, all Stems or reeds with an excep turnel leaf. Requirer was noticed and my 42m/by 144 The coal is solid, bright dean with little visible sely and no sulpher bag 141). Experiments in burning at The conneries give as a result 118 Was egual 100 Ho 1) Welling ton Soul It does not clinker The ask is granular and of a restrict gray. The cont gives little sitche - ans is a satisfactory steaming coal. The pein comes to The surface about 30th higher thep the uppel tetunel in a ravine and has been traced inland for more their half a mile. Leave Chignike lafor about le Pill. for the shumagins with a quiet Fartismy hado of the week side of the Bay appear gently waved, chearly horisontal and about against the mountain rocks appreciate and

montay ofug 5/95morning dec dayse Kupicdon'ty with moderate! sea Theat wind, sail h, of Known and anchor at (Sour Point, off he buildings about 2 Pilli to ashow for news of find every body fine to Delacoss Harber afrece the steamer Portand has prepar rived with core from nonaims. Sham down there to anchor in the orienter or a ty 6,30 Pill. after dinner to ashore and see Thomas the deputy collector, Dr. Call and the cashier, Hubbley, Mr. Bugher and others and sel some late papers. Then about for the Right, a 52 stores culling Juston Huy 6th

walk up to the expelle Consolidated mine about three mile where we meet Capt Nague Bf & france The new aus I go round and see the works when quidance of Mr. Bareta. Lake Tunch with Them, have a short with the DT & Me. Wine court. Return by the launch whent of Pall. in a storm of want train. Up another to Joinside the June Ander for hetter protection. night blows hard on equalls with hand taring Wednesday Auf 7. morning wines still fresh but a little more to the westune Tr. B. & P. goup again to the mine. I remain on be per to unitery notes to. The rock off entrance or seland for their how her se his is a his compacts from the health to have in the later of t is visible attraction rate

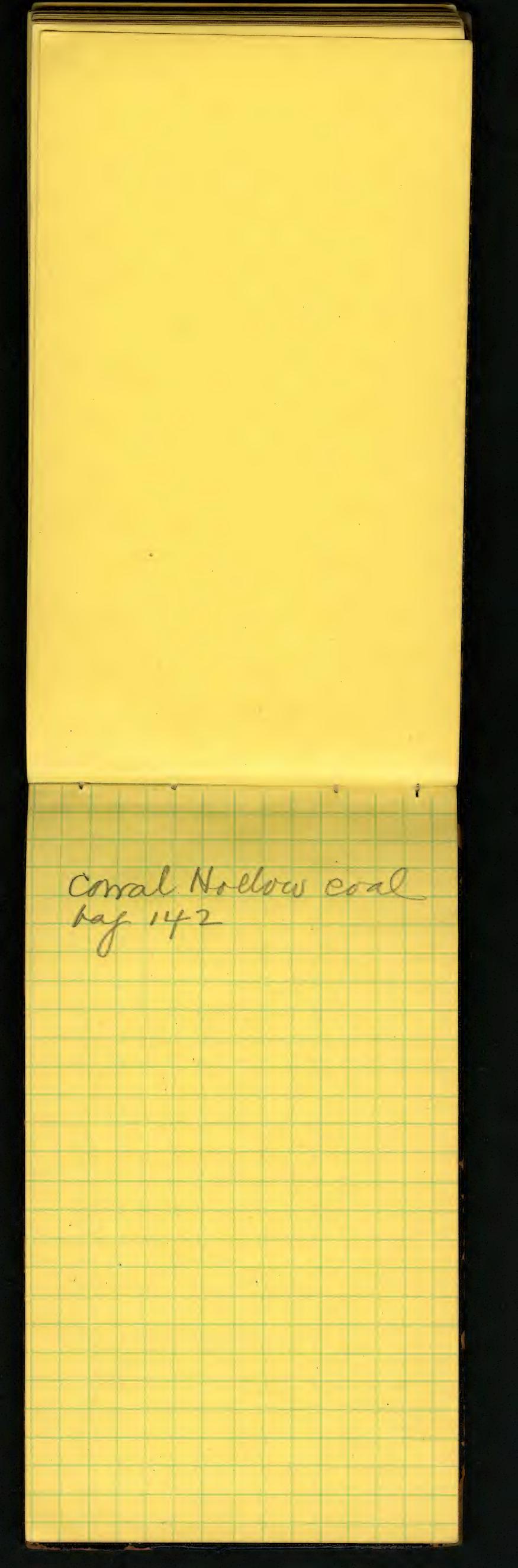
the value of middle parts S. JoS. Most Mead Minney VIV Harton Elys, Kock at S. Nohl Few S. W.S. Bring out are find the breaker in line with the trease of the point on the south side of the culture The party return about 4 Pall and we sail for Coal Nacha anchoring in the lee is the island about 7.30 Messes other. & Henry Febley & Wer Hel son bonds us latel Hay 8, Thursday morning parkeret exercise the orall man anchorner then correspondently could found bottom in lift half a will the shore the Vithey have been truendo make omething of The coal for 9 were harle been resident In 2 years May are They demond, one of the lower level was man 150 N Must area unproper

by timbered and has caved in. The next above in Thurs. auf 8/95 the main Idal seam has (Bag 131 coal from lower hed Backareffs Dava Tay Bag 143 coal from layer oute 131.) and It inch become of dull could fruity free a dozen small seasons of 4-5 males Theor of unsure partly fall the firsures much resolved by iron crite or shally lamine in spell iron priviles as seen abuntant These seams are expandedly wider banks of existence and aluminous shall or grace PARTITO LOUISELE The tunnel from much the coal was obtained is about runs in about es 12. It

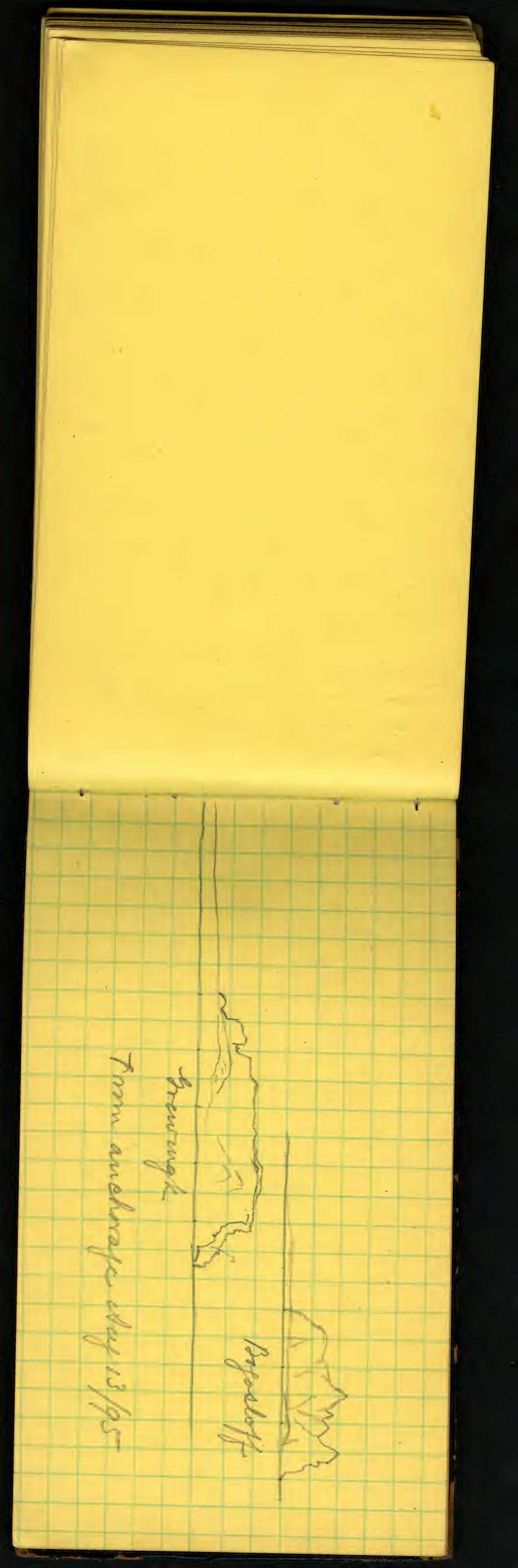
seemed about 200 ft above The bay, 100 ft higher was a this turnel of about the same size, paltly timbered with much perceliting areta The coul in new numerous small seams varying from Ix inch to 2 modes with banks of carbonasians shale intermitted the whole too poor quality to be of any importance so that this tunnel has not been marked of tate The sporte where these opening hay heen make is privile. to the worthwood than the ald dingunes at 1864-72 Deave the bay about II will and visit the volenter neck nt The new lease of the top Strait Then run lown to Roll Ever and examine The rocks, then back to Sand Point where we tre up at the wharfand

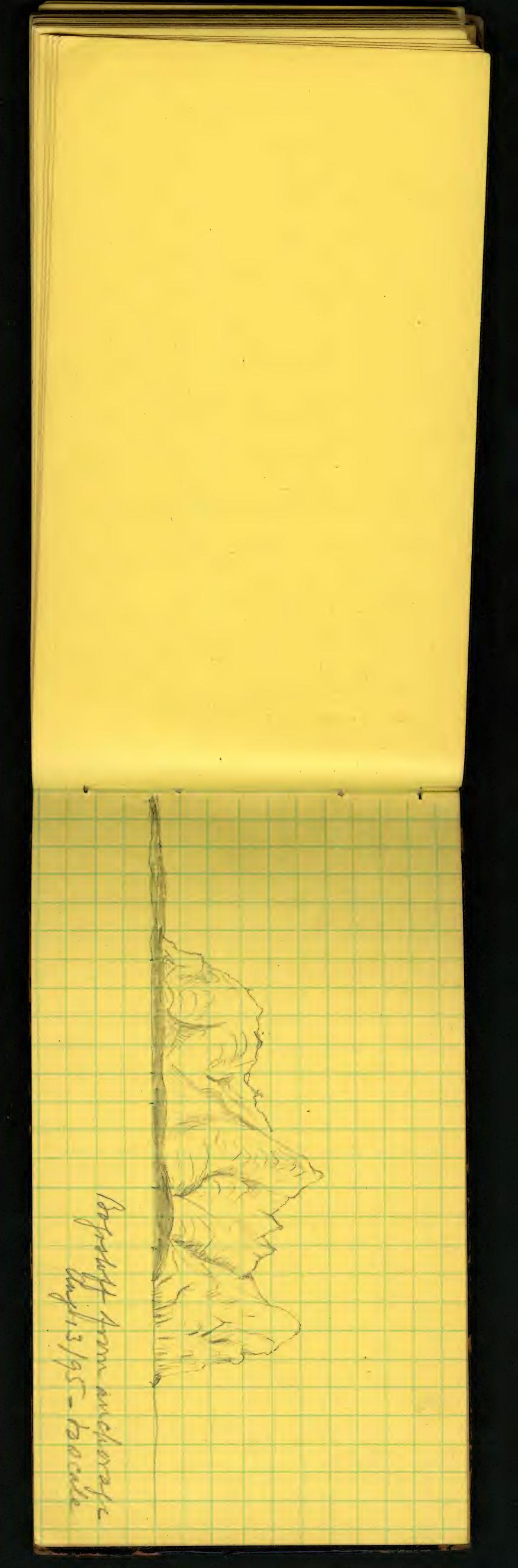
Thursday any 8. and laws our baffage about Hotel where me get a much necky bath, with the mart 12 PM Kentrabush to Ne 1-20 MAINE HE TERRE LEVEL 100 france: 1. Wind blowing hard, - Tay Cless 9 Water to any great dagust at midnight by the cry that The Dora has come, pay will & get things about in a hurry and leave Anustrant for Belbersky at 1.30 Aull. Fresh gale blowing, reach the willage about moon and law some supplies then proceed against a strong SW, wind. sometimes niving to a fall in squally Saturday, auf 10_ morning Jime , fresh Weske by wind proceed former thurles Pass, which we reach in Pull with high wind at Times, a heavy

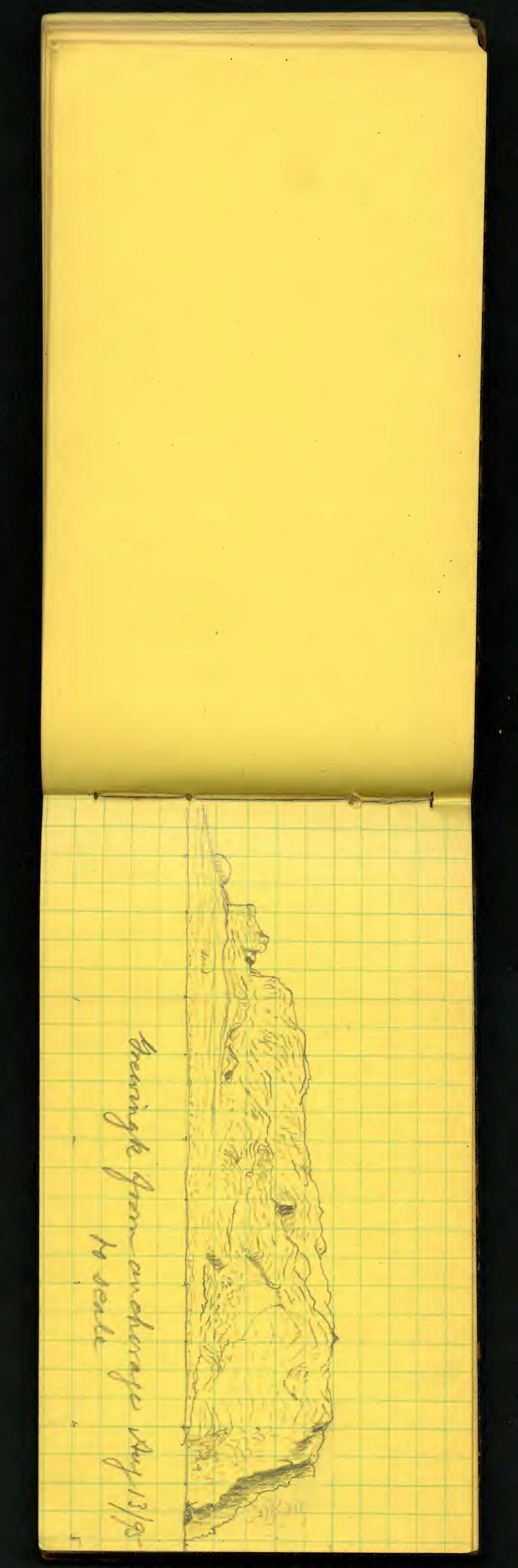
swell aus tide seps in Akulan pass and arrive at butch Harbor about & Pedl. Go ashere ture cordially recid by alle, Baldum + Chr. 5 hica, Go about the culler Rush and see Capt. Horner who wishes to withdraw his offer of a cutter to Herendeen Bay, as one of his nessels has been do tained at sitka, Dr Becker and for to sive up that this the which is expected here in about a week. Return to the shore and sleep at The Cos house. Sunday, Aug 11/95. morning calm, cloudy, The sun trying to get out. Write letters and host with no les-



From anahorage 58/48 J. Edge Bogestoff SSE 1/8 E S. by E Grewings WSN Y8S n. Peak Bojos wiff its tot length high middle peaka little higher Highest part of Gowingk a little more than 15 total length Bojastoff & Gresning to vol Sy







Gredning k valedins & Sail round the islets leging The distances of taken the Bojas Def bearing fruth the dolg reads 0,2 mile the two islets in one East - log 0,93 mile Off middle as end of Frowing k log reads I mile Begastoff comes out west of log reads 1,30 mile Bagosloff clears brewing R log rells 1,35 mile north edged Frewing & Learing nE, foglaced 1.8 mile South edge of Frewing & Aluf hearing In Ellog reads 2 mile north edge of Bogosloff hearing ME. log rendo 3 miles, South dillo nE. log reads 3,25 East edge Grenningk in one with

west edge Bosonsoft dog reads 3,65 whole wand covered 3,645 East edge Frewingk and East edge Begardly in one, leg reads 3. 475 miles Bojostoff is wedge like. Foreveriel Statish top with a little steam, form squaresh with three short northerly projections The spit projects past Bogosloff and ourvos to the eastward under water There appears to be a channel between the los, Muchon in seventous, Enstal The exect

ang II, shells like spirifer John Cape Thompson SE Whaska, Cal ages, Vac. also mesogoce to soils, Inn Hamistal Bay and terliary from amount to, cusherammenite in a C. Cos, museum from Sutkern Id. Mundeen Bay coal acco on the beach great Hodook Id execution obtained by PTB, July 16/95

north Pacific Mining & Imm. Co. Capil 300000 shares @ \$10,000 Jos. Rescuttral Troit. M. A. Bradley Vice Prest. Comissed Det. 1895, under the ations immediately. 650 tons brought from Eastland Carron. 1 Expenditure of very 42,000 (alaska C.Co. Velout 50000) E. W. Wood testing coal for Co. I Lanall & Con Bordes Journal Michael Miller

Jusies stoo the in a give would have used 2200 Hs of comor coal with a low fire and Amall pressure of Atlam the amount used was 2240 to 1350 of Comy.

142 Corral Hollow Suly 28 227 Herendeen Bay Sepphague mine Kil 115 116 Pt Sullivan 117 meade & mitchell seaws Braktman + De Froff 118 Eastrand Carron main veir 114 4 dump 219 in place 220 moneil vein 224 Bratter vein 12/3 amalik Har 1084 Chranik 141 Lower hed unga 131 next above 130 Laborelo 213 + 218 + 143 114+ 115+ 219+ 1164 1177 227+ 1184 126/317



